Name _____ Date _____ Class _____

# Check-Up 2

*for use after* **Investigation 3**

**Moving Straight Ahead**

**1.** Find the value of the indicated variable.

**a.** Suppose $y = 2x + 10$. Find $y$ if $x = -2$.

**b.** Suppose $y = 2x - 2.5$. Find $x$ if $y = 10$.

**2.** Solve each equation to find the value of $x$.

**a.** $4x + 10 = 22$

**b.** $3x + 9 = 6x$

**c.** $2(x + 3) = 18$

**d.** $2x + 15 = 27 - 4x$

## Check-Up 2 *(continued)*

*for use after* **Investigation 3**

**Moving Straight Ahead**

**3.** The pep club is going to sell bouquets of flowers during the homecoming game. They represent their revenue $R$ and costs $C$ with the following equations.

$R = 5.50x$ $C = 250 + 1.25x$ $x$ is the number of bouquets.

**a.** When is the pep club's revenue equal to their costs? Explain.

**b.** What is the $y$-intercept of the line for each equation? What information does it represent in this context?

**c.** What is the constant rate of change for each relationship? What information does it represent in this context?